MEETING #4 MINUTES – REVIEW POSSIBLE ACTIVITIES
Floodplain Management Plan 2020 Update
Thursday, December 5, 2019
9:00 a.m. – 12:00 p.m.

OPS Building Conference Rooms - 2801 West Durango Street

1. **Introduction**
    - Opening business comments
        - Safety Moment
            - Winter Driving
                - Prepare for being delayed or stranded
                - AZ511 for road closure updates (Call 511 or AZ511.gov)
                - Wear warm clothes and pack emergency kit
                - Tire chains and ice scraper
                - Slow down leave extra room and respect the plow
        - New participants (See attached sign-in sheet for all participants)
            - Aireona Raschke – Central Arizona Conservation Alliance (CAZCA)
            - Elise Moore – City of Phoenix
            - Terry Weter – Town of Gila Bend
            - Annia Quiroz – CAZCA
    - **Presentation 1 – Maricopa County Parks and Recreation Department – Ken Vonderscher)**
        - Connect people with nature – Goal of Maricopa County Parks and Recreation
        - Educational programs, trails, concessions and partnerships, camping, picnicking, and volunteer opportunities
        - Over 90% self-funded through fees
            - Maricopa County will help for capital projects
        - Volunteers
            - Core volunteers
            - Community volunteers
            - Day of service volunteers
            - 95,536 volunteer hours that are worth approximately $2.2M
        - County Parks and Flood Control
            - White Tanks Regional Park
                - McMicken Dam
                - Buckeye town limits and Buckeye FRS #2 and 3
                - Largest park within County
            - Adobe Dam Recreation Area
                - Different concession parks in the area
            - Cave Creek Regional Park
                - Adjacent to Apache Wash and other washes that feed into Cave Buttes Dam
            - McDowell Mountain Regional Park
                - Next to the Verde River

- Usery Mountain Regional Park
  - Development encroaching around this park and others
- San Tan Mountain Regional Park
  - Within Pinal County – approximately 3,500 acres in trust land and 10,000 acres total
- Estrella Mountain Regional Park
  - Near the Gila River
  - Applied funds over the last few years to revamp the park for additional amenities
- Buckeye Hills Regional Park
  - South of the Gila River
  - Joe Foss Shooting Range
- Maricopa Trail
  - Connects to all the Maricopa County Regional Parks
  - Working to connect to Buckeye Hills and into the Hassayampa River Preserve
  - 315 miles – combination of Maricopa County trails and other agency trails
- Hassayampa River Preserve
  - Longest stretch of Willow and Cottonwood
  - Important habitat for bird enthusiasts
- Lake Pleasant Regional Park
  - Helps drive funding for the parks department
  - Desert Outdoor Center
- Spur Cross Ranch Conservation Area
  - Area saved from development by multiple agencies/municipalities
- Vulture Mountains Recreation Area
  - Newest area within portfolio
  - Approximately $40M in development in the area
    - Currently at 95% plans
    - Camping areas and road access
  - Box Wash goes through the area
- For more information refer to: www.maricopacountyparks.net
- Questions
  - (Tice Supplee) Is there a map that shows the other municipality and agency parks and open areas?
    - Maricopa Association of Governments (MAG) has a recreation layer on their website/map
    - Maricopa County has a map to show Maricopa County features and land ownership

- **Presentation 2 – CAZCA – Aireona Raschke**
  - Two goals today – Discuss multi-use potentials for floodplains and tools that CAZCA has for future land use planning

- Natural cover in desert washes have immense value for the people and animals of Maricopa County
    - How do we entice people to come to Maricopa County – both people and companies?
- The Greenprint
    - Expertise from all corners of Maricopa County
        - The Nature Conservancy (TNC), Arizona Game and Fish Department (AZGFD), CAZCA, Sonoran Institute
        - Happy to receive feedback as they are working through the process
- Map of the Phoenix metropolitan area
    - Floodplains shown in the area to depict overlaps
        - Future development layer shown – large floodplains through areas that have water flow through
            - Need for how floodwaters will pass through
            - New ways to deal with flooding – multi-use areas
        - Parks need analysis
            - Areas that people do not have adequate access to park facilities
            - Areas along washes available for parks
        - Habitat connectivity corridors
            - Shows areas and corridors that show potential for wildlife to pass through the city
            - Maintaining these is important to the health of the city, parks, animals, and people in the area
- Visualizing Equity and Habitat Integrity
    - CAZCA Greenprint
        - Parcel level data and other information to help with land development planning
        - Key analyses available:
            - Mitigate heat risk through nature-based solutions
            - Protect water resources
            - Ensure habitat integrity
- Accessing the Greenprint
    - For more information refer to: https://web.tplgis.org/CAZCA
    - A username and password is required to access the map portal
    - Click "Create a new account" to setup free account
- Questions
    - (Patti Trites) South Mountain area is experiencing a lot of growth – zoning approvals for changes are needed – how does CAZCA's Greenprint overlap with the City of Phoenix General Plan? When a citizen comes to the zoning board and wants a variance, they always bring up the City of Phoenix General Plan.
        - The General Plans have not been integrated into the Greenprint. However, it is still helpful to show existing use to see what is going on.

- (Patti Trites) Monthly people are coming through making changes and removing vegetation/structures. The development gets passed through permitting.
  - This tool is meant to deal with issues currently happening to communicate to the people you are working with. This helps provide data to show why different developments may not be beneficial.
- (Patti Trites) Zoning board talks about General Plan. They talk about trees and conservation.
  - CAZCA would like to present the tool and how it can be beneficial for communicating issues and analyses
- (Kelli Sertich) The Flood Control District of Maricopa County (FCDMC) is tasked with finding areas to build basins and other features to protect the area.
- (Terry Weter) The State Department and Department of Real Estate has to approve these developments.
  - We are here to share our resources and seek ideas of where CAZCA should go next to present the Greenprint tool and educate people about what is available.
- (Gregg Monger) Where does CAZCA funding come from?
  - Funded by a foundation and nested within the Desert Botanical Garden. Long-term it is unknown at this point in time.
- (Gregg Monger) Perhaps one of our goals should be implementing and using, to some capacity, associations like CAZCA to implement new ideas.

2. **Review Flood Threat Definition**
   - Develop consensus on definition – Active group discussion on definition
     - Three options of the potential flood threat definition were presented:
       - Option 1 – Risk to life, property, and infrastructure due to rising floodwaters.
       - Option 2 – The vulnerability of people, property, structures, infrastructure, the environment, critical facilities, and economic development due to flooding impacts in Maricopa County.
       - Option 3 – Potential risks and vulnerability to people, property, environment, economy, structures, and infrastructure as a result of rising floodwaters during or after a storm event which cause interruptions to a normal operating condition and way of life.
   - Open Dialogue and Feedback:
     - (Ed Taylor) Shouldn't you have "prior to" the floodwaters? To be proactive it should contain all three – prior, during, and after. We know several days in advance before a big storm.
     - (Patti Trites) Is the proper word "preparedness"? You need to have the awareness and preparedness.
     - (Brandon Espinoza) We are just defining the flood threat not what needs to get done.
     - (Ed Taylor) Setting up sand bag locations should not be done in times when it is not needed.
     - (Kelli Sertich) If we are talking about our small projects program, capital improvements program, or new delineations, what does a flood threat mean to determine project's needs.
     - (Terry Weter) Potential risk means considering all risks that come to site.

- Keep the potential in the definition
  - (Gregg Monger) Likes option 1, simple and clean, but add in the understanding of the potential flood threat risk .
  - (Patti Trites) Option 3 has critical information for the normal operating condition and way of life. Road may wash out and strand people. Their homes are okay, but they can't get anywhere.
  - (Tony Angueira) There is a difference between a threat and vulnerability. The threat is there whether there is a vulnerability or not.
  - (Kelli Sertich) As a refresher, groups redefined the definition and the FMP team took the definitions and combined them into different options.
  - (Randy Goettsche) The difference between risk and vulnerability.
    - (Jesus Haro) Vulnerability is often associated to socio-economic factors.
    - (Mark Fountain) Would the group like to define it as threat or vulnerability?
      - (Tom Ewers) Threat the definition is vulnerability. The different options build on each other.
  - (Kelli Sertich) Suggested to the committee - How do we take this definition to management so the different communities can come knowing what to expect is needed to get approval for their projects?
  - (Brandon Espinoza) Option 3 remove vulnerability because we are defining in more detail.
    - (Mark Fountain) Suggested for conversation - each person has a different level of vulnerability.
  - (Tom Condit) Is it a given that we know what the definition of risk or potential risk is?
    - (Mark Fountain) Risk ties in separately – existing condition for evaluating a site or an emergency as a result of a storm or the changes communities are going through as development encroaches into drainage areas.
  - (Patti Trites) If this is for funding? If you leave it to during or after a storm event is that limiting the request to where the area has to be flooded before funding can be taken. And/or matters to the definition. Committee agrees.

- **REVISED and RECOMMENDED Option 3** – Potential risk to life, property, environment, economy, structures, or infrastructure anticipated from a flood event which causes interruptions to a normal operating condition or way of life.

3. **Review Potential 2020 FMP Goals**
    - Select Goals Developed – formulated from FMP Committee feedback
      - Review of goals and objective definitions
      - Complimentary to industry examples
      - Goals versus objectives
        - **Goals** are general statements concerning an aspect of the agency's desired ultimate physical, social and/or economic environment. Goals set the tone for development decisions in terms of the citizens' desired quality of life.
        - **Objectives** (Action Items) express the kinds of action that are necessary to achieve the stated goals without assigning responsibility to any specific action. Goals review
      - Action - develop consensus of goals

- **Goal 1** – Transportation and low water crossing mitigation (top noted item from group break outs in prior FMP Committee Meetings)
    - The District will work with transportation agencies and the communities to mitigate public concerns on transportation routes that result in interruptions to normal operating conditions, delays of emergency services, negatively impact the economy, and pose safety risks due to flooding.
        - (Tice Supplee) Possible action would be working with the communities for emergency action procedures. Change "and" to "or".
            - (Mark Fountain) Documentation from FCDMC includes these procedures.

    REVISED Goal 1: The District will work with transportation agencies and the communities to address public concerns on transportation routes that result in interruptions to normal operating conditions, delays of emergency services, negatively impact the economy, or pose safety risks due to flooding.

- **Goal 2** – Funding evaluation of process and dedicated resources
    - The District shall evaluate its various programs and funding processes working with stakeholders to assure funds continue to be invested back into the communities.
        - (Mark Fountain) Goal does not set a timeline – goal supports funding for community to reduce the risk throughout Maricopa County.
        - (Gregg Monger) Would add in "fiscal opportunities" because funds are limited. This should be a clear goal during these times – being creative with funding.
        - (Tice Supplee) FCDMC should work in partnership with stakeholders.
            - (Gregg Monger) I think partnership should be added in.
        - (Patti Trites) Was this goal to drive FCDMC's to fund projects independently of the stakeholders if they do not have funding.
            - (Kelli Sertich) That could be an option but not intended to be the only option. Keeps flexibility.
            - (Mark Fountain) There are times when the partner agencies do not have the funding and come to FCDMC for assistance. Does not create a restriction.
            - (Patti Trites) FCDMC could deem a project important enough to fund it without partner money.
            - (Dan Nissen) Through an IGA FCDMC could front the money and the municipality can pay back over time.
            - (Kelli Sertich) Previously, a city would get a grant and FCDMC would say this reduces FCDMC's cost share in the project.
        - (Randy Goettsche) Add any condition to get the project done in the most cost advantageous method to get it into the community.

- o (Mark Fountain) That might be a qualifier an could limit the goal. Suggest putting this into an action item.
  - (Patti Trites) Do you want to put in "timely" so that projects do not get shelved?
    - o (Mark Fountain) Asked - What is timely? It is ambiguous and projects may not stay within a certain timeframe. Perhaps action items might better inform the timing of the goal.

REVISED Goal 2: The District shall work in partnership with stakeholders to evaluate its various programs, fiscal opportunities, and funding processes to assure funds continue to be invested back into the communities.

- **Goal 3** – Education/Technical resources
  - The District shall work with stakeholders and local organizations on consistent county-wide technical and educational materials for flood mitigation with materials available in physical locations as well as on the District's web page.
    - (Gregg Monger) Direct tie into CAZCA along with Parks and Recreation department.
    - (Tom Ewers) Developing documents or already developed documents?
      - o (Kelli Sertich) FCDMC has a variety of prepared documents. Consistent messaging to the public for different flood awareness items.
      - o (Mark Fountain) A guidance document was previously developed before to inform Homeowner's Associations (HOA) and communities of wash maintenance, but there is concern it is not readily available or up to date.
      - o (Terry Weter) This would be a large expense to FCDMC
        - (Kelli Sertich) We have staff that does this work anyway.
        - (Terry Weter) Paper products would be a large expense.
        - (Mark Fountain) Part of the County's responsibility is to have guidance materials available for different communities.
    - (Tony Angueira) Face-to-face interaction may be an activity for this goal. Would want some direct interaction with the public.
      - o (Mark Fountain) When we come back to activities this could be an item added. Could be a measurable action to get out to the communities a certain number of times per year.
    - (Kelli Sertich) Change it to digitally and hard copy materials. Provide flexibility for how the documents are shared.
    - Suggested change to: materials available in physical locations as well as electronically. Also, change "mitigation" to "preparedness"

REVISED Goal 3: The District shall work with stakeholders and local organizations on consistent county-wide technical and educational materials for flood

preparedness with materials available in physical locations as well as electronically.

- **Goal 4** – Managed open space
  - The District shall continue pursuing nature based solutions for flood mitigation, working with stakeholders to identify open space opportunities in conjunction with flood control projects.
    - (Ken Vonderscher) Revise to "identify and acquire open space in conjunction…"
    - (Dan Nissen) Should there be coordination with the development community?
      - (Mark Fountain) Developers are included within "stakeholders."
    - Recommendation for adding "acquire".

REVISED Goal 4: The District shall continue pursuing nature based solutions for flood mitigation, working with stakeholders, to identify and acquire open space in conjunction with flood control projects.

- Goal 5 – Regional leadership
  - The District shall continue to perform duties as the regional leader in floodplain management communicating information, guidelines, and regulations across communities in Maricopa County and to adjacent Counties.
    - (Mark Fountain) This goal supports proactive bringing the information out to the community. Provide access to information from FCDMC.
    - (Patti Trites) Do you want to add in any money into this? Leader of the finance side flood control projects?
      - (Kelli Sertich) This would be a part of the regular budget process.
    - (Tice Supplee) Communities infers municipalities. Land is owned and managed by government entities in unincorporated areas and should be brought forward sooner in the conversation.
      - (Terry Weter) State land is not the same as public land.
    - (Patti Trites) FCDMC is the "key communicator" doesn't FCDMC have a financial responsibility?
      - (Kelli Sertich) That could be assigned an action item.
    - (Tom Condit) Instead of "communicating" change to "collaborating"
    - (Tice Supplee) Is there a way to phrase it to where it is truly collaborative to where complementary guidelines and regulations are at the subdivision level as well as the County-level.
      - (Kelli Sertich) The County has no real authority over the communities, however it provides information and support.
    - (Patti Trites) Regional expert in floodplain management – dispensing your expertise.

REVISED Goal 5 – The District shall continue to perform duties as the regional leader in floodplain management. District shall provide and communicate information, guidelines, and regulations to agencies and communities throughout Maricopa County and to adjacent Counties.

An agreement was reached by committee participants for the working edits applied on screen during the meeting, resulting in the recorded proposed goals within the power point deck.

The committee took a 10-min break and reconvened to for the next steps of developing possible activities with each agreed upon goal.

4. **Discussion of Possible Activities**
   - Define action items that may be conducted within the next 5-years or items to be implemented and continue beyond 5-years.
   - **Goal 1** – Transportation and low water crossing mitigation
     - (Tom Ewers) **Identify locations of risk/concern. Categorize**
     - (Lynn Wittman) Is there a reason that it is limited to transportation crossings?
       - (Kelli Sertich) This was repeatedly brought up as a flood hazard by the different groups during breakout. We want to capture what is happening all the time, but this is an element of the mitigation efforts.
       - (Mark Fountain) These are in addition to current FCDMC operations.
     - Jesus Haro brought up the thought during break that mitigation usually means physical changes to the location.
     - (Tom Ewers) **Design and funding options**
     - (Lance Webb) **Triggers or warning to let the public know to avoid area**
     - (Mark Fountain) Identify new traffic routing. How is the risk communicated?
     - (Tice Supplee) Is there a place where adjacent land modifications can be evaluated to see if this is a problem?
       - (Kelli Sertich) This should be taken care of during the permitting process.
       - (Mark Fountain) **Evaluate areas of impact**
     - (David Fritz) **Cost sharing partnerships**
     - (Lance Webb) **Matrix of prioritization**
       - What makes one location a higher priority than another.
       - (Mark Fountain) Example – Levels of use and location.
       - (Lance Webb) Data to identify prioritization. A standard for prioritization.
     - (Patti Trites) **Partnership with Emergency Services** to not reinvent the wheel of how to handle events
     - **Coordination with transportation agencies for crossing risks**
     - (Mark Fountain) What about depth gages and other warnings?
       - (Ken Vonderscher) You may drive two miles to get to a crossing that is closed when a flashing sign could be further up the road to advise drivers. Need additional signage at risk and in advance of risks.
     - (Mark Fountain) Partnership with other agencies for low water crossings. Who takes the lead?
       - (Lance Webb) If it is within a city, the city should take the lead.
       - (Tom Ewers) If the city has no funding, where can it come from.

- ▪ (Mark Fountain) The cities would have to identify and communicate the areas of risk to prioritize for funding requests.
  - (Kelli Sertich) FCDMC will have a strategic plan and we want some key concepts that will then be flushed out in the strategic goal.

- **Goal 2** – Finding evaluation of process and dedicated sources
  - (Tice Supplee) **FCDMC to communicate availability of Federal funding**
    - ▪ (Patti Trites) FCDMC could help prepare or write the grant.
  - (Tice Supplee) **IGAs for fiscal partners**
    - ▪ (Mark Fountain) There are some currently but could be increased.
  - (Patti Trites) **Regular review cycle for funding status and how they are evaluated to the communities**
    - ▪ Report out to communities for status.
  - (Patti Trites) This forum could be done annually to publicly announce what FCDMC is doing and where funding is at. **Funding based communication to the community**
    - ▪ (Mark Fountain) The FMP will undergo annual status reviews and the FMP Committee is invited back annually to review the FMP actions. FCDMC will extend an invite for future meeting date.
    - ▪ (Patti Trites) Once we get to the next goals, it will always come back to money. If there is no money, the projects do not happen.
  - (Terry Weter) Competition of grants from large and small communities. Would mean more to smaller communities than larger. **Particular definition of process and evaluation.**
    - ▪ (Lance Webb) Mesa knows the ground rules from FCDMC so they are confident they meet the parameters to get funding. The Capital Improvements Program (CIP) process of evaluation needs a bit more definition.
    - ▪ (Terry Weter) Projects dating back decades that have not been pushed forward due to cost. Developable land is within floodplains. It is easier to fund small projects versus larger. It is tough for small communities to compete with larger communities. The impact to a small community will not show it is as beneficial to more people due to size but the risks are real.
  - (Randy Goettsche) Are you looking for FCDMC to present how to get a winning application?
    - ▪ (Terry Weter) Have hired engineers to design and FCDMC says it costs too much money.
  - (Patti Trites) Guidance for grant writing and advisement of funding by the District.

- **Goal 3** – Education/ Technical Resources
  - (Tom Ewers) Doesn't the CRS require the FMP to be within the library?
    - ▪ (Mark Fountain) Yes, it does.
    - ▪ (Sharon McGuire) Within multiple libraries (Gilbert as well) and online to see where to find them.
  - (Tom Ewers) **Identifying additional physical locations for documents**
  - (Patti Trites) Getting information to HOA level. **Combine technical resource materials with emergency service information – federal resources, local known hazards for each city, etc.** Getting the information out: schools, public

meetings, town halls, FCDMC meetings, HOA meetings and others. Having a hard copy of the materials available somewhere. **Utilities and Points of Contact (city and service are specific).** Also, **Outreach to HOA's for flood preparedness and wash management.** Emergency services has information of health issues with flooding.

- (Lance Webb) A manual for **how to maintain drainage infrastructure after it is built**. Mesa documented who was responsible for each wash corridor. The maintenance does not generally cause the flood, but it can be. A manual or material that is a regional resource that municipalities can use to show citizens what general practices are to maintain. Mesa will tell residents this could be tied into landscaping contracts for the neighborhood/HOA.
  - (Dan Nissen) The HOA board is subject to changes and nothing is left behind. Knowledge transfer is lost.
  - (Mark Fountain) Need a County centralized location for the resource.
  - (Patti Trites) Define and communicate where to get the information from.
  - (Mark Fountain) Information could be added to the annual Flood Facts Brochure. The District can identify resources and locations.
  - (Tom Ewers) Is there anything done with schools?
    - (Mark Fountain) Yes, flyer could be developed and handed out in conjunction with school STEM presentations.
  - (Lance Webb) Develop how to videos. Illustrative to show how different drainage infrastructure features are maintained. Mesa goes around and presents this to people but a video would be helpful to direct people to.
    - **Illustrative literature and "how to" maintenance videos**
    - Use County or Districts YouTube for video uploads.
  - (Tom Ewers) **Home and garden show booth to present and educate**
    - (Kelli Sertich) Used to do this regularly but have not in a while.
  - (Lance Webb) The Hydrology/Hydraulics manuals are well done, and the process could be done to fill a void for the maintenance side of infrastructure.
- (Randy Goettsche) **Support check dams and water retention for recharge.** Smaller lot development – green infrastructure and low impact development. Water retention for individual lots.
  - (Mark Fountain) FCDMC and City of Phoenix have literature currently available for green infrastructure and low impact development guidance.
  - **Distribution of Green Infrastructure and Low Impact Development literature**
  - (Randy Goettsche) We are 20-square miles of 1 acre lots.
    - (Mark Fountain) There are issues with how this information could be communicated to the residents.
- (Patti Trites) Vegetation within the wash – do not want another Los Angeles River. How much needs to be taken out to meet requirements.
  - **Characterization of acceptable vegetation within wash corridors**
- (Mark Fountain) **Adverse impacts of walls**
- (Mark Fountain) **Citizen rain gage program**

- **Goal 4** – Managed open space
  - (Tom Ewers) What FCDMC is doing now. The definition of the goal says continuing. Kelli Sertich provided a response.
  - (Ken Vonderscher) **Coordination and cooperation with Communities and Stakeholders.** If they need drainage infrastructure, FCDMC could step in to provide resources and support.
  - (Tom Condit) Is there any guidance or priority for where heavy development is occurring?
    - (Mark Fountain) **Prioritization for areas poised for risk**
  - (Tice Supplee) There is a meeting between the City of Tempe, City of Phoenix, and FCDMC for flood issues.
  - (Mark Fountain) **Prioritizing the locations where floodplain delineations and re-delineations are needed**
    - (Nuning Lemka) There are areas that are identified as risks but have not being delineated. **Additional identification of flood risks**
    - (Dan Nissen) Doesn't have to be a wash. Residents do no want to have to buy flood insurance.
    - (Tome Ewers) Aren't there flood areas that are not FEMA floodplains.
      - (Mark Fountain) Yes, Maricopa County has additional areas of flood hazards and best available information.
  - (Patti Trites) Other known risks in the area not mapped as a floodplain
  - (Mark Fountain) Recharge opportunities for open space. **Best practice for locations where recharge locations are best suited**
  - (Mark Fountain) Removal of invasive species in floodways.
    - (Tice Supplee) A good document has been written on tamarisk and is in review. Information for landscaping choices and linked with County Parks. Arid tolerant plants that are highly invasive and still being used.
  - (Mark Fountain) **Connectivity of open space**
  - (Patti Trites) **Coordination with the General Plans of different communities**
    - (Kelli Sertich) Area Drainage Master Plans look at existing and future development and where open space can be planned for.
    - (Tice Supplee) There is a large network of planned roads.
    - (Ed Taylor) There are master plans that have been developed where as you chase to issues the developer will build based on the master plan.
- **Goal 5** – Regional leadership
  - (Mark Fountain) **Annual meeting and communication of changes in regulations and policies.** Be proactive to educate and notify communities of changes.
  - (Ed Taylor) Review existing information and update to current practice. **Review current information and guidelines available.**
    - (Mark Fountain) What would be the timeframe of the review?
    - (Ed Taylor) At least annually, but bi-annual would be good. May be a big ask.
    - (Lance Webb) Bi-annual might be a bit too frequent. Things do not change that frequently. Even annually certain documents may be too much.
      - (Kelli Sertich) Most manuals are on a 3 to 4-year cycle.
    - (Lance Webb) **Define a review cycle for literature.**

- (Randy Goettsche) Does FCDMC have enough legislative authority to due its job? **Identify regulatory authority.** How do we break this cycle and prevent development where it does not belong?
- (Mark Fountain) **Incorporating agency best practices**
- (Mark Fountain) Per early committee meeting - finished floor inspection services. Group to conduct spot finished floor elevation checks.
  - (Dan Nissen) Would be a tough one to enforce.
  - (Lance Webb) The risk relies on the surveyor that seals the elevation certificate.
  - (Patti Trites) Dust control permits are required for building. Why is there not a mechanism to periodically inspect the finished floor elevation?
    - (Lance Webb) Some municipalities rely on FCDMC and some do it themselves. The responsibilities are set differently. Ultimately, the liability is on the person that seals the elevation certificate or plans.
    - (Kelli Sertich) Elevation certificates are a requirement of permits.
    - (Tom Condit) A check of the elevation certificates during the Community Assistance Visits by the Arizona Department of Water Resources.
  - Group agreement, this should not be set as an actionable item, defer responsibility to ADWR.
- (Mark Fountain) Per early committee meeting - **Permitting enforcement and regulation.** Identify when corners are being cut during development.
  - (Tice Supplee) Being proactive with the federal definition of waters of the U.S. where major washes in Maricopa County may not be under the same protection it previously was.
    - (Kelli Sertich) The state can still have its own waters. Needs to have some coordination with the state.
    - (Mark Fountain) The state is currently seeking to define waters and washes the require preservation at the local level- more information is forthcoming.
    - **Changes of Section 404 and protection of open space**
  - (Dan Nissen) 408 permits are also coordinated with FCDMC.

5. **Next Steps**
   - FMP Committee reflect on possible Action Items
   - FMP Committee Meeting #5 – Draft an Action Plan – Thursday, January 16, 2020
   - FMP Public Meeting #2 – Thursday, February 13, 2020 at FCDMC
   - Please continue to solicit feedback for online survey
     - Floodplain Management Plan Survey

Summary of Possible Activities Per Goal

Goal 1 – The District will work with transportation agencies and the communities to address public concerns on transportation routes that result in interruptions to normal operating conditions, delays of emergency services, negatively impact the economy, or pose safety risks due to flooding.
- Identify and categorize locations of risks and concern
- Develop a matrix of prioritization
- Design and funding options
- Establish triggers or warnings for areas to avoid
- Additional cost sharing partnerships
- Partnership with emergency services
- Coordination with transportation agencies for crossing risks

Goal 2 – The District shall work in partnership with stakeholders to evaluate its various programs, fiscal opportunities, and funding processes to assure funds continue to be invested back into the communities.
- Regular review cycle for funding status and community evaluation
- FCDMC to communicate availability of Federal funding
- Funding based communication to the community
- Develop definition of process and evaluation
- IGAs for fiscal partners

Goal 3 – The District shall work with stakeholders and local organizations on consistent county-wide technical and educational materials for flood preparedness with materials available in physical locations as well as electronically.
- Identifying additional physical locations for documents
- Combine technical resource materials with emergency service information
- Utilities and points of contact for emergency response
- Outreach to HOA's for flood preparedness and wash management
- Characterization of acceptable vegetation within wash corridors
- How to maintain drainage infrastructure after it is built
- Illustrative literature and "how to" maintenance videos
- Home and garden show booth to present and educate
- Support check dams and water retention for recharge
- Distribution of Green Infrastructure and Low Impact Development literature
- Communicate / educate on adverse impacts of walls
- Citizen rain gage program

Goal 4 – The District shall continue pursuing nature based solutions for flood mitigation, working with stakeholders, to identify and acquire open space in conjunction with flood control projects.
- Coordination and cooperation with Communities and Stakeholders
- Prioritization for areas poised for risk
- Prioritize locations where floodplain delineations and re-delineations are needed
- Additional identification of flood risks
- Best practice for locations where recharge locations are best suited
- Connectivity of open space

- Coordination with the General Plans of different communities

Goal 5 – The District shall continue to perform duties as the regional leader in floodplain management. District shall provide and communicate information, guidelines, and regulations to agencies and communities throughout Maricopa County and to adjacent Counties
- Annual meeting and communication of changes in regulations and policies
- Review current information and guidelines available
- Define a review cycle for literature
- Identify regulatory authority
- Incorporate agency best practices
- Permitting enforcement and regulation
- Changes of Section 404 and protection of open space